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<110> Geron Corporation McWhir, Jim Gold, Joseph D. Schiff, J. Michael <120> Selective Antibody Targeting of Undifferentiated Stem Cells

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aag Lys	gat Asp	gtc Val	ctc Leu	gtg Val 85	gtg Val	acc Thr	cct Pro	tgg Trp	ctg Leu 90	gct Ala	ccc Pro	att Ile	gtc Val	tgg Trp 95	gag Glu	288
ggc Gly	aca Thr	ttc Phe	aac Asn 100	atc Ile	gac Asp	atc Ile	ctc Leu	aac Asn 105	gag Glu	cag Gln	ttc Phe	agg Arg	ctc Leu 110	cag Gln	aac Asn	336
acc Thr	acc Thr	att Ile 115	ggg Gly	tta Leu	act Thr	gtg Val	ttt Phe 120	gcc Ala	atc Ile	aag Lys	aaa Lys	tac Tyr 125	gtg Val	gct Ala	ttc Phe	384
ctg Leu	aag Lys 130	ctg Leu	ttc Phe	ctg Leu	gag Glu	acg Thr 135	gcg Ala	gag Glu	aag Lys	cac His	ttc Phe 140	atg Met	gtg Val	ggc Gly	cac His	432
cgt Arg 145	gtc Val	cac His	tac Tyr	tat Tyr	gtc Val 150	ttc Phe	acc Thr	gac Asp	cag Gln	ctg Leu 155	gcc Ala	gcg Ala	gtg Val	ccc Pro	cgc Arg 160	480
gtg Val	acg Thr	ctg Leu	ggg Gly	acc Thr 165	ggt Gly	cgg Arg	cag Gln	ctg Leu	tca Ser 170	gtg Val	ctg Leu	gag Glu	gtg Val	cgc Arg 175	gcc Ala	528
tac Tyr	aag Lys	cgc Arg	tgg Trp 180	cag Gln	gac Asp	gtg Val	tcc Ser	atg Met 185	cgc Arg	cgc Arg	atg Met	gag Glu	atg Met 190	atc Ile	agt Ser	576
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gtg Val	caa Gln	gag G1u 275	gtg Val	cag Gln	cgg Arg	ctc Leu	acc Thr 280	agg Arg	gcc Ala	tgc Cys	cac His	cag Gln 285	gcc Ala	atg Met	atg Met	864
gtc Val	gac Asp 290	cag Gln	gcc Ala	aac Asn	ggc Gly	atc Ile 295	gag Glu	gcc Ala	gtg Val	tgg Trp	cac His 300	gac Asp	gag Glu	agc Ser	cac His	912

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gag Glu	tac Tyr	ttg Leu	tgg Trp	gac Asp 325	cag Gln	cag Gln	ctg Leu	ctg Leu	ggc Gly 330	tgg Trp	ccc Pro	gcc Ala	gtc Val	ctg Leu 335	agg Arg	1008
aag Lys	ctg Leu	agg Arg	ttc Phe 340	act Thr	gcg Ala	gtg Val	ccc Pro	aag Lys 345	aac Asn	cac His	cag Gln	gcg Ala	gtc Val 350	cgg Arg	aac Asn	1056
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Arg Gly Phe Cys Met Ala Val Arg Glu Pro Asp His Leu Gln Arg Val 50 60

Ser Leu Pro Arg Met Val Tyr Pro Gln Pro Lys Val Leu Thr Pro Trp 65 70 75 80

Lys Asp Val Leu Val Val Thr Pro Trp Leu Ala Pro Ile Val Trp Glu 85 90 95

Gly Thr Phe Asn Ile Asp Ile Leu Asn Glu Gln Phe Arg Leu Gln Asn $100 \hspace{1cm} 105 \hspace{1cm} 110$

Thr Thr Ile Gly Leu Thr Val Phe Ala Ile Lys Lys Tyr Val Ala Phe 115 120 125

Leu Lys Leu Phe Leu Glu Thr Ala Glu Lys His Phe Met Val Gly His 130 135 140 Page 20

Arg Val His Tyr Tyr Val Phe Thr Asp Gln Leu Ala Ala Val Pro Arg 145 150 155 160

Val Thr Leu Gly Thr Gly Arg Gln Leu Ser Val Leu Glu Val Arg Ala 165 170 175

Tyr Lys Arg Trp Gln Asp Val Ser Met Arg Arg Met Glu Met Ile Ser 180 185 190

Asp Phe Cys Glu Arg Arg Phe Leu Ser Glu Val Asp Tyr Leu Val Cys 195 200 205

Val Asp Val Asp Met Glu Phe Arg Asp His Val Gly Val Glu Ile Leu 210 215 220

Thr Pro Leu Phe Gly Thr Leu His Pro Gly Phe Tyr Gly Ser Ser Arg 235 230 235

Glu Ala Phe Thr Tyr Glu Arg Arg Pro Gln Ser Gln Ala Tyr Ile Pro 245 250 255

Lys Asp Glu Gly Asp Phe Tyr Tyr Leu Gly Gly Phe Phe Gly Gly Ser 260 265 270

Val Gln Glu Val Gln Arg Leu Thr Arg Ala Cys His Gln Ala Met Met 275 280 285

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Leu Asn Lys Tyr Leu Leu Arg His Lys Pro Thr Lys Val Leu Ser Pro 305 310 315 320

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agt Ser	gac Asp	ttc Phe 195	tgc Cys	gag Glu	cgg Arg	cgc Arg	ttc Phe 200	ctc Leu	agc Ser	gag Glu	gtg Val	gat Asp 205	tac Tyr	ctg Leu	gtg Val	624
tgc Cys	gtg Val 210	gac Asp	gtg Val	gac Asp	atg Met	gag Glu 215	ttc Phe	cgc Arg	gac Asp	cat His	gtg Val 220	ggc Gly	gtg Val	gag Glu	atc Ile	672
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ccc Pro	aag Lys	gac Asp	gag Glu 260	ggc Gly	gat Asp	ttc Phe	tac Tyr	tac Tyr 265	atg Met	ggg Gly	gcg Ala	ttc Phe	ttc Phe 270	ggg Gly	ggg Gly	816
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atg Met	gtc val 290	gac Asp	cag Gln	gcc Ala	aac Asn	ggc Gly 295	atc Ile	gag Glu	gcc Ala	gtg Val	tgg Trp 300	cac His	gac Asp	gag Glu	agc Ser	912
cac His 305	ctg Leu	aac Asn	aag Lys	tac Tyr	cta Leu 310	ctg Leu	cgc Arg	cac His	aaa Lys	ccc Pro 315	acc Thr	aag Lys	gtg Val	ctc Leu	tcc Ser 320	960
ccc Pro	gag Glu	tac Tyr	ttg Leu	tgg Trp 325	gac Asp	cag Gln	cag Gln	ctg Leu	ctg Leu 330	ggc Gly	tgg Trp	ccc Pro	gcc Ala	gtc Val 335	ctg Leu	1008
agg Arg	aag Lys	ctg Leu	agg Arg 340	ttc Phe	act Thr	gcg Ala	gtg Val	ccc Pro 345	aag Lys	aac Asn	cac His	cag Gln	gcg Ala 350	gtc val	cgg Arg	1056
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<213> Homo sapiens

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His Leu Asn Lys Tyr Leu Leu Arg His Lys Pro Thr Lys Val Leu Ser 305 310 315 320

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<213> Mus musculus

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Arg Ser Lys Ser Glu Thr Ser Leu Pro Ser Ser Arg Ser Gly Ser Gln 20 25 30

Page 26

Glu Lys Ile Met Asn Val Lys Gly Lys Val Ile Leu Leu Met Leu Ile 35 40 45Val Ser 50 <210> 18 <211> 17 <212> PRT <213> Artificial Sequence <220> <223> Chimera Mouse/Pig <400> 18 Met Trp Leu Arg Ser His Arg Gln Val Ile Leu Leu Met Leu Ile Val $10 \ 15$ Ser <210> 19 <211> 17 <212> PRT <213> Artificial Sequence <220> <223> Chimera Mouse/Pig <400> Met Trp Leu Arg Ser His Arg Gln Val Val Leu Ser Met Leu Leu Val 1 5 10 15 Ser <210> 20 <211> 15

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PRT

Page 27

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